

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
22 September 2005 (22.09.2005)

PCT

(10) International Publication Number  
WO 2005/088717 A2

(51) International Patent Classification<sup>7</sup>:

H01L 27/00

(74) Agent: WINCKELS, J.H.F.; Johan de Wittlaan 7,  
NL-2517 JR Den Haag (NL).

(21) International Application Number:

PCT/NL2005/000166

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,  
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,  
ZM, ZW.

(22) International Filing Date: 7 March 2005 (07.03.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

04075849.2

16 March 2004 (16.03.2004) EP

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (for all designated States except US): NED-  
ERLANDSE ORGANISATIE VOOR TOEGEPAST-  
NATUURWETENSCHAPPELIJK ONDERZOEK  
TNO [NL/NL]; Schoemakerstraat 97, NL-2628 VK Delft  
(NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): VAN MOL,  
Antonius, Maria, Bernardus [NL/NL]; Grasbeemd  
40, NL-5658 HC Eindhoven (NL). GROB, Frank,  
Theodorus, Johannes [NL/NL]; Kootwijkstraat 40,  
NL-5651 AS Eindhoven (NL). LINDEN, Joannes,  
Leonard [NL/NL]; Schalmstraat 13, NL-5614 AC Eind-  
hoven (NL).

Published:

— without international search report and to be republished  
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: FLEXIBLE ORGANIC ELECTRONIC DEVICE AND METHODS FOR PREPARING THE SAME

(57) Abstract: The invention provides a method for preparing a flexible organic electronic device comprising at least a first electrode comprising a transparent conductive oxide layer, an organic active layer, a second electrode and a polymeric substrate layer, whereby the transparent conductive layer is applied on a removable substrate layer or one or more transparent layers previously applied onto the removable substrate layer at a temperature of at least 250°C, and the removal carrier is removed when the polymeric substrate layer has been applied. The invention further provides a flexible organic electronic device obtainable by said method.

WO 2005/088717 A2